COOPER LIGHTING - METALUX®

DESCRIPTION

Ecofit conversion kits are an economical means of increasing fixture efficiency and energy savings. Ecofit conversion kits are ideal for applications where fixture removal is cost-prohibitive.

Ecofit conversion kits are designed for applications with conventional 3- or 4-lamp recessed 2' x 4' fixtures. Retrofitting 3-and 4-lamp troffers to 2-lamps with high performance retrofit conversion kits can reap up to 50% energy savings.

Catalog #		Type
Project		
Comments		Date
Prepared by		

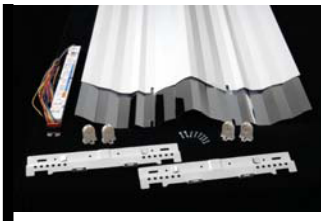
SPECIFICATION FEATURES

A ... Construction
Socket tracks are die formed 20 gauge cold rolled steel. Toolless ballast access for easy wiring access and installation.

B ... Electrical
Optional electronic ballasts are Class "P" and are positively secured by mounting bolts. Twistlock lampholders. (1) UL/CUL listed. Suitable for damp locations.

C ... Optical Modules
Die formed reflectors are faceted for 2 lamp configuration with two optical distributions: medium and wide. Medium beam optical modules utilize 95% specular Miro 4 substrate while the wide distribution utilizes a high performance 91% reflective polyester powder coated finish.

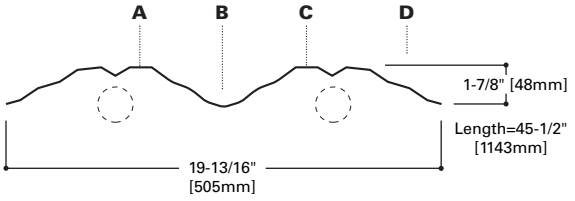
D ... Mounting
Retrofit installation in standard 2' x 2' and 2' x 4' recessed troffers. Hardware included.



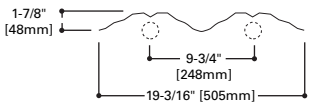
ECOFIT
TROFFERS

2' x 2', 2' x 4'
2 OR 3 LAMPS

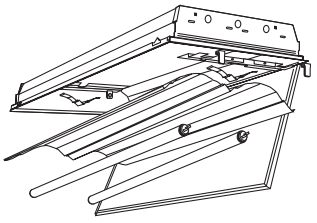
Energy Efficient Conversion Kit



LAMP CONFIGURATIONS



INSTALLATION

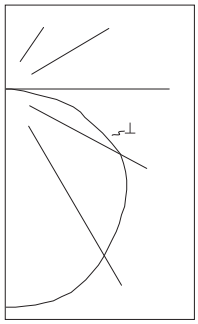


All components reflectors, reflector end caps, socket brackets, sockets, screws, and wire nuts) are included in each kit for installation and require only a few basic tools for assembly.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT
Safe and convenient means of disconnecting power

PHOTOMETRICS



ECT-332-W-EB81
Electronic Ballast
(3) FO32/841 lamps
2850 lumens
Spacing criterion: (II) 1.3 x mounting height, (⊥) 1.4 x mounting height
Efficiency 88.1%
Test Report: ECT332WEB81

Candela

Angle	Along II	45°	Across ⊥
0	2397	2397	2397
5	2386	2394	2398
10	2356	2381	2394
15	2304	2349	2366
20	2239	2297	2311
25	2147	2218	2231
30	2041	2117	2132
35	1918	1998	2028
40	1774	1852	1923
45	1619	1703	1829
50	1445	1560	1723
55	1263	1413	1596
60	1068	1257	1444
65	870	1090	1167
70	660	864	919
75	449	593	760
80	237	395	321
85	60	86	54
90	0	0	0

Coefficients of Utilization

Effective floor cavity reflectance 20%

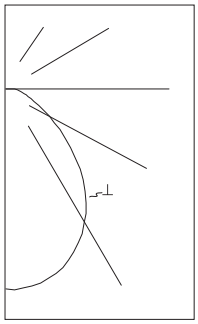
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	102	102	102	102	98	98	98	94	94	94	90	90	90	88
1	95	91	87	84	93	89	86	82	85	82	80	82	79	77	79	77	75	73
2	86	79	73	67	84	77	71	67	74	69	65	71	67	63	68	65	62	60
3	78	69	61	55	76	67	60	55	65	59	54	62	57	53	60	56	52	50
4	72	61	53	47	70	60	52	46	57	51	46	55	50	45	53	48	44	42
5	66	54	46	40	64	53	45	40	51	44	39	49	43	39	48	42	38	36
6	61	48	40	35	59	48	40	34	46	39	34	45	38	34	43	38	33	32
7	56	44	36	30	55	43	36	30	42	35	30	40	34	30	39	34	30	28
8	52	40	32	27	51	39	32	27	38	31	27	37	31	27	36	30	26	25
9	49	37	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	22
10	46	34	27	22	44	33	26	22	32	26	22	32	26	22	31	25	22	20

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1907	22.3	25.3
0-40	3152	36.9	41.8
0-60	5753	67.3	76.4
0-90	7534	88.1	100.0
0-180	7534	88.1	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	3238	3406	3658
55	3114	3484	3935
65	2911	3647	3905
75	2453	3240	4152
85	973	1395	876



ECT-232-M-EB81
Electronic Ballast
(2) 32W T8 F32T8/TL841 lamps 6100 lumens
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.1 x mounting height
Efficiency 88%
Test Report: ECT232MEB81

Candela

Angle	Along II	45°	Across ⊥
0	2547	2547	2547
5	2537	2532	2522
10	2493	2486	2473
15	2413	2404	2378
20	2301	2275	2240
25	2148	2121	2088
30	1971	1937	1929
35	1756	1737	1744
40	1499	1496	1536
45	1216	1238	1284
50	951	998	1013
55	715	745	760
60	533	511	550
65	394	327	402
70	312	226	314
75	258	193	263
80	188	159	199
85	95	87	107
90	0	0	0

Coefficients of Utilization

Effective floor cavity reflectance 20%

rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	102	102	102	102	98	98	98	94	94	94	90	90	90	88
1	97	93	89	86	94	91	88	85	87	85	82	84	82	80	81	79	77	76
2	89	82	77	73	87	81	76	72	78	74	70	75	71	68	72	69	67	65
3	82	74	67	62	80	72	66	61	70	65	60	67	63	59	65	61	58	56
4	76	66	59	54	74	65	58	53	63	57	53	61	56	52	59	55	51	49
5	70	60	52	47	68	59	52	47	57	51	46	55	50	46	54	49	45	44
6	65	54	47	42	64	53	47	42	52	46	41	51	45	41	49	44	41	39
7	61	50	42	37	59	49	42	37	48	41	37	46	41	37	45	40	37	35
8	57	46	39	34	55	45	38	34	44	38	33	43	37	33	42	37	33	32
9	53	42	35	31	52	42	35	31	41	35	30	40	34	30	39	34	30	29
10	50	39	32	28	49	39	32	28	38	32	28	37	32	28	36	31	28	26

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1896	31.1	35.3
0-40	2988	49.0	55.7
0-60	4632	75.9	86.3
0-90	5366	88.0	100.0
0-180	5366	88.0	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2661	2709	2810
55	1929	2010	2050
65	1443	1197	1472
75	1542	1154	1572
85	1687	1545	1900

ORDERING INFORMATION

SAMPLE NUMBER: 2ECT-217-M-UNV-EB81-10B

Width
2=24" Wide (only)

Series
ECT=Ecofit Troffer

No. of Lamps
2=2 Lamps
3=3 Lamps

Lamp Type
17=17W T8 Lamp (24")
32=32W T8 Lamp (48")
24=24W T5HO Lamp (24")
54=54W T5HO Lamp (48")

Optics
M=Medium (Specular Aluminum)
W=Wide (White Painted)

Voltage[1]
NB=No Ballast
UNV=Universal Voltage Ballast Included

Ballast/Socket Type[1]
T8 Systems
EB8__=T8 Electronic Instant Start. Total Harmonic Distortion < 10%
No. of Ballast: 1, 2 or Blank
EB8__/PLUS= T8 Electronic Instant Start. High Ballast Factor >1.13. Total Harmonic Distortion < 20%
No. of Ballast: 1 or 2
ER8__=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%
No. of Ballast: 1, 2 or Blank
EB8__/L=T8 Electronic Instant Start w/ < 0.80 Ballast Factor
No. of Ballast: 1 or 2
T5 Systems
EBT__=T5HO Electronic Program Start. Total Harmonic Distortion < 10%
No. of Ballast: 1, 2 or Blank

Packaging
10B=10 Pack Quantities
80B=80 Pack Quantities
U=Unit Pack

NOTES: [1]When using Ecofit Kits without ballasts, indicate ballast type and system to designate shunted or unshunted sockets. Ex: 2ECT-2 32-M-EB81-10B.

SHIPPING INFORMATION

Catalog No.	Wt.
2ECT-217-X-NB	1.2 lbs.
2ECT-217-X-UNV	2.7 lbs.
2ECT-232-X-NB	2.1 lbs.
2ECT-232-X-UNV	3.6 lbs.
2ECT-224-X-NB	1.2 lbs.
2ECT-224-X-UNV	2.7 lbs.
2ECT-254-X-NB	2.1 lbs.
2ECT-254-X-UNV	3.6 lbs.